A-71983/AJT/TJH
463031-88
42-0204

CERTIFICATE OF MAILING (37 CFR 1.8(a))

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Laura Lee Mosier

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Pavel I. LAZAREV et al.	Art Unit: To be assigned
Application No. 10/643,257	Examiner: To be assigned
Filed: August 18, 2003	Date: January 20, 2004
For: Backlight Polar Organic Light-Emitting Device	

INFORMATION DISCLOSURE STATEMENT SUBMITTED
PRIOR TO THE FIRST OFFICIAL ACTION

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Applicant submits herewith publications which may be material to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 C.F.R. §1.56. While this Statement may be "material" pursuant to 37 C.F.R. §1.56, it is not intended to constitute an admission that any patent, publication, or other information referred to therein is "prior art" for this invention unless specifically designated as such. A listing of patents and publications is shown on enclosed Forms PTO/SB/8A and PTO/SB/8B, and a copy of each patent and publication is also enclosed.

This information disclosure statement is being filed in compliance with 37 CFR 1.97(b)(3) as being filed before the mailing date of the first office action on the merits.

Respectfully submitted,

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete if Known	
Application Number	10/643,257
Filing Date	August 18, 2003
First Named Inventor	Pavel I. LAZAREV
Group Art Unit	Not yet assigned
Examiner Name	Not yet assigned
Attorney Docket Number	A-71983/AJT/TJH

Sheet 1 of 3

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	U.S. Patent Document Number	Kind Code[2] (*if known*)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		4,016,331		Garito et al.	04/05/1977	
		4,940,854		Debe	07/10/1990	
		5,176,786		Debe	01/05/1993	
		5,646,284		Usuki et al.	07/08/1997	
		5,656,751		Tanaka et al.	08/12/1997	
		5,710,273		Usuki et al.	01/20/1998	
		5,739,296		Gvon et al.	04/14/1998	
		5,885,498		Matsuo et al.	03/23/1999	
		5,998,803		Forrest et al.	12/07/1999	
		6,049,428		Khan et al.	04/11/2000	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Office[3]	Number[4]	Kind Code[2] (*if known*)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
		EP	0 352 931	B1	Minnesota Mining & Mfg	10/20/1993		

Examiner Signature		Date Considered	

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[1] Unique citation designation number. [2] See attached Kinds of U.S. Patent Documents. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. [6] Applicant is to place a check mark here if English Language Translation is attached.

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Sheet 2 of 3

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
		Ashida, Michio et al., "Unit Cell Metastable-form Constants of Various Phthalocyanines", *Bull. Chem. Soc. Jpn.*, Vol. 39, No. 12 (1966), pp. 2616-2624.	
		Ashida, Michio, "The Orientation Overgrowh of Metal-phthalocyanines on the Surface of Single Crystals. I. Vacuum-condensed Films on Muscovite, II. Vacuum-condensed Films of Copper-phthalocyanine on Alkali Halides", *Bull. Chem. Soc. Jpn.*, Vol. 39, No. 12 (1966), pp. 2625-2631, 2632-2638.	
		Ashida, M. et al., "Thermal Transformation of Vacuum Condensed Thin Films of Copper-Phthalocyanine", *J. Crystal Growth*, **8** (1971), pp. 45-56.	
		Bobrov, Y, "Spectral properties of thin crystal film polarizers", *Molecular Materials*, Vol. 14, No. 3 (2001), pp. 191-203.	
		Fryer, J. R., "Molecular Images of Thin-Film Polymorphs and Phase Transformations in Metal-Free Phthalocyanine", *Acta Cryst.*, A35 (1979), pp. 327-332.	
		Gu, G., "Transparent organic light emitting devices", *Appl. Phys. Lett.* **68** (19), 6 May 1996, pp. 2606-2608.	
		Kepler, R. G. et al., "Electron and hole mobility in *tris*(8-hydroxyquinolinolato-N1,O8) aluminum", *Appl. Phys. Lett*, Vol. 66, 26 June 1995, pp. 3618-3620.	
		Lazarev, P., et al., "X-ray Diffraction by Large Area Organic Crystalline Nano-films", *Molecular Materials*, Vol., 14, No. 4, 2001, pp. 303-311.	
		McPherson, Alexander et al., "Facilitation of the Growth of Protein Crystals by Heterogeneous/ Epitaxial Nucleation", *J. Cryst. Growth*, Vol. 85, 1988, pp. 206-214.	
		Morrison and Boyd, "Organic Chemistry", Third Edition, Allyn and Bacon, Inc. (Boston, 1974); *(Book. Not enclosed.)*	
		Murata, Y. et al., "Molecular image of copper phthalocyanine", *J. Microsc.*, Vol. 108, Pt., 3, December 1976, pp. 261-275.	

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Unique citation designation number. [2] See attached Kinds of U.S. Patent Documents. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. [6] Applicant is to place a check mark here if English Language Translation is attached. Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231.

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		Qiu, Chenfeng et al., "Dependence of the Current and Power Efficiencies of Organic Light-Emitting Diode on the Thickness of the Constituent Organic Layers", *IEEE Trans. Electron Devices*, Vol. 48, No. 9, September 2001, pp. 2131-2137.	
		Qiu, C.F. et al., "Room-temperature ultraviolet emission from an organic light-emitting diode", *Appl. Phys. Lett.*, Vol. 79, No. 14, 1 October 2001, pp. 2276-2278.	
		Saijo, H. et al., "Epitaxial growth of a new polymorph of Cu-phthalocyanine on graphile". *J. Crystal Growth*, Vol. 40 (1977), pp. 118-124.	
		Saito, Yoshio et al., "Molecular energetics of the epitaxial growth of chlorinated copper phthalocyanine on KCl surfaces", *J. Crystal Growth*, Vol. 67 (1984), pp. 91-96.	
		Saito, Yoshio et al., "Epitaxial growth mechanism of chlorinated copper phthalocyanine on KCl surfaces", *Appl. Surf. Sci.*, **22/23** (1985), pp. 574-581.	
		Tang, C. W. et al., "Organic electroluminescent diodes", *Appl. Phys. Lett.*, Vol. 51, No. 12, 12 September 1987, pp. 913-915.	
		Uyeda, Natsu et al., "Molecular image resolution in electron microscopy", *J. App. Phys.*, Vol. 43, No. 12, December 1972, pp. 5181-5189.	

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